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Analytical Methodology Summary

Volatile Organics:

Water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Solid samples are analyzed for priority pollutant volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8240. Water samples are analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by GC-PID as specified in EPA Methods 503.1 and 602. Solid samples are analyzed for BTEX as specified in EPA Method 8020.

Acid and Base/Neutral Extractable Organics:

Water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable priority pollutants as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8240 and 8270. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatiles, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8080.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1.

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Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic
Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050 "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

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Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.2. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.1. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA, Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611 Alumina Column Cleanup and/or Method 3650 Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020

Corrosivity - Water pH Method 9040
Soil pH Method 9045

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide
and hydrogen sulfide release.

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

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DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1173

BTEX

Lab No. 73667
Client ID: SS-1
87.5% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	220	2.5
p-Xylene	130	2.5
m-Xylene	190	2.5
o-Xylene	49	2.5

KHOV005503

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QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73667
Client ID: SS-1

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

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QA Batcth T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73667
Client ID: SS-1

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 ^(a)
m&p-Cresol	ND	109	ND	200.0 ^(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73667
Client ID: SS-1

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005506

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QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73667
Client ID: SS-1

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	2.62	95.6	2.74	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005507

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HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73667 Client ID: SS-1 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	12700	30000	25
pH 7.22 (standard units)			
Percent Solids	87.5%		
FLASHPOINT	>160°F		

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Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73667 Client ID: SS-1 87.5% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	820	160
PCB-1260	ND	160

KHOV005509

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QA Batch 1173

BTEX

Lab No. 73668
Client ID: SS-2
88.1% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	99	2.5
p-Xylene	12	2.5
m-Xylene	19	2.5
o-Xylene	5.0	2.5

KHOV005510

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Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73668
Client ID: SS-2

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005511

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Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1173

BTEX

Lab No. 73668
Client ID: SS-2
88.1% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	99	2.5
p-Xylene	12	2.5
m-Xylene	19	2.5
o-Xylene	5.0	2.5

KHOV005512

ENVIROTECH RESEARCH, INC.

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Job No.: C494 - Hovnanian
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QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73668
Client ID: SS-2

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005513

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Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73668
Client ID: SS-2

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0(a)
m&p-Cresol	ND	109	ND	200.0(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005514

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73668
Client ID: SS-2

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005515

ENVIROTECH RESEARCH, INC.

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73668
Client ID: SS-2

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	2.32	95.6	2.43	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005516

ENVIROTECH RESEARCH, INC.

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73668 Client ID: SS-2 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	8760	30000	25
pH 7.18 (standard units)			
Percent Solids	88.1%		
FLASHPOINT	>160°F		

KHOV005517

ENVIROTECH RESEARCH, INC.

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Report Date: 10/15/92
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N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73668 Client ID: SS-2 88.1% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	770	160
PCB-1260	ND	160

KHOV005518

ENVIROTECH RESEARCH, INC.

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1173

BTEX

Lab No. 73669
Client ID: SS-3
87.1% Solid

Quantitation Limit

Parameter

Units: ug/kg (Dry Weight)

Units: ug/kg

Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	64	2.5
p-Xylene	ND	2.5
m-Xylene	2.9	2.5
o-Xylene	4.9	2.5

KHOV005519

ENVIROTECH RESEARCH, INC.

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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73669
Client ID: SS-3

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005520

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73669
Client ID: SS-3

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 ^(a)
m&p-Cresol	ND	109	ND	200.0 ^(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005521

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73669
Client ID: SS-3

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

(b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005522

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

PESTICIDES AND HERBICIDES

Lab No. 73670
Client ID: SS-4

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005523

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73670
Client ID: SS-4

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	2.1	112	1.9	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	1.7	95.6	1.8	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005524

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73670 Client ID: SS-4 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	3310	30000	25
pH 7.44 (standard units)			
Percent Solids	88.5%		
FLASHPOINT	>160°F		

KHOV005525

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73670 Client ID: SS-4 88.5% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	520	160
PCB-1260	ND	160

KHOV005526

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1174

BTEX

Lab No. 73671
Client ID: SS-5
86.9% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	150	50
Toluene	150	50
Ethyl benzene	800	50
p-Xylene	420	50
m-Xylene	660	50
o-Xylene	390	50

KHOV005527

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73671
Client ID: SS-5

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005528

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73671
Client ID: SS-5

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 ^(a)
m&p-Cresol	ND	109	ND	200.0 ^(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005529

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

PESTICIDES AND HERBICIDES

Lab No. 73671
Client ID: SS-5

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

(b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005530

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73671
Client ID: SS-5

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	ND	95.6	ND	5.0
Mercury	0.00021	120	0.00018	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005531

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73671 Client ID: SS-5 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	220	30000	25
pH 7.78 (standard units)			
Percent Solids	86.9%		
FLASHPOINT	>160°F		

KHOV005532

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73671 Client ID: SS-5 86.9% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

KHOV005533

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1174

BTEX

Lab No. 73672
Client ID: SS-6
88.4% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	190	50
Toluene	120	50
Ethyl benzene	540	50
p-Xylene	240	50
m-Xylene	390	50
o-Xylene	190	50

KHOV005534

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73672
Client ID: SS-6

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KH0V005535

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73672
Client ID: SS-6

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 ^(a)
m&p-Cresol	ND	109	ND	200.0 ^(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005536

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

PESTICIDES AND HERBICIDES

Lab No. 73672
Client ID: SS-6

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

(b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005537

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73672
Client ID: SS-6

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	ND	95.6	ND	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005538

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73672 Client ID: SS-6 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	170	30000	25
pH 7.88 (standard units)			
Percent Solids	88.4%		
FLASHPOINT	>160°F		

KHOV005539

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73672 Client ID: SS-6 88.4% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

KHOV005540

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1174

BTEX

<u>Parameter</u>	Lab No. 73673 Client ID: SS-7 86.4% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
Benzene	130	50
Toluene	ND	50
Ethyl benzene	290	50
p-Xylene	100	50
m-Xylene	190	50
o-Xylene	77	50

KH0V005541

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73673
Client ID: SS-7

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005542

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73673
Client ID: SS-7

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 (a)
m&p-Cresol	ND	109	ND	200.0 (a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005543

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73673
Client ID: SS-7

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

(b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005544

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73673
Client ID: SS-7

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	0.76	95.6	0.79	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005545

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73673 Client ID: SS-7 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	700	30000	25
pH 7.67 (standard units)			
Percent Solids	86.4%		
FLASHPOINT	>160°F		

KHOV005546

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73673 Client ID: SS-7 86.4% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

KHOV005547

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1173

BTEX

Lab No. 73674
Client ID: SS-8
94.7% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	85	2.5
p-Xylene	ND	2.5
m-Xylene	ND	2.5
o-Xylene	ND	2.5

KHOV005548

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73674
Client ID: SS-8

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	0.013	100	0.013	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005549

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73674
Client ID: SS-8

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 (a)
m&p-Cresol	ND	109	ND	200.0 (a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005550

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73674
Client ID: SS-8

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005551

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73674
Client ID: SS-8

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	0.38	95.6	0.40	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005552

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73674 Client ID: SS-8 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	160	30000	25
pH 8.28 (standard units)			
Percent Solids	94.7%		
FLASHPOINT	>160°F		

KHOV005553

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

Lab No. 73674
Client ID: SS-8
94.7% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	170	160
PCB-1260	ND	160

KHOV005554

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 1173

BTEX

Lab No. 73675
Client ID: SS-9
93.8% Solid

<u>Parameter</u>	<u>Units: ug/kg (Dry Weight)</u>	<u>Quantitation Limit</u> <u>Units: ug/kg</u>
Benzene	ND	2.5
Toluene	ND	2.5
Ethyl benzene	11	2.5
p-Xylene	ND	2.5
m-Xylene	ND	2.5
o-Xylene	ND	2.5

KHOV005555

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2753

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

VOLATILE ORGANICS

Lab No. 73675
Client ID: SS-9

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Benzene	ND	107	ND	0.5
Carbon tetrachloride	ND	82.7	ND	0.5
Chlorobenzene	ND	97.6	ND	100.0
Chloroform	ND	100	ND	6.0
1,2-Dichloroethane	ND	101	ND	0.5
1,1-Dichloroethylene	ND	111	ND	0.7
Methyl ethyl ketone	ND	109	ND	200.0
Tetrachloroethylene	ND	96.0	ND	0.7
Trichloroethylene	ND	100	ND	0.5
Vinyl chloride	ND	114	ND	0.2

Quantitation Limits: 0.005 mg/l for all compounds, except for methyl ethyl ketone and vinyl chloride which are 0.01 mg/l

Units: Results and Regulatory Levels are in mg/l

KHOV005556

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73675
Client ID: SS-9

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0(a)
m&p-Cresol	ND	109	ND	200.0(a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005557

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
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Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

PESTICIDES AND HERBICIDES

Lab No. 73675
Client ID: SS-9

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005558

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73675
Client ID: SS-9

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	ND	95.6	ND	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005559

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73675 Client ID: SS-9 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	368	30000	25
pH 8.37 (standard units)			
Percent Solids	93.8%		
FLASHPOINT	>160°F		

KHOV005560

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

Lab No. 73675
Client ID: SS-9
93.8% Solid

Parameter

Units: ug/kg (Dry Weight)

Quantitation Limit
Units: ug/kg

PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260

ND
ND
ND
ND
ND
ND
ND

160
160
160
160
160
160
160

KHOV005561

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch T1057

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

EXTRACTABLE ORGANICS

Lab No. 73676
Client ID: SS-10

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
1,4-Dichlorobenzene	ND	67.2	ND	7.5
2,4-Dinitrotoluene	ND	112	ND	0.13
Hexachlorobenzene	ND	110	ND	0.13
Hexachlorobutadiene	ND	58.1	ND	0.5
Hexachloroethane	ND	59.1	ND	3.0
Nitrobenzene	ND	96.3	ND	2.0
Pyridine	ND	92.3	ND	5.0
o-Cresol	ND	100	ND	200.0 (a)
m&p-Cresol	ND	109	ND	200.0 (a)
Pentachlorophenol	ND	118	ND	100.0
2,4,5-Trichlorophenol	ND	115	ND	400.0
2,4,6-Trichlorophenol	ND	109	ND	2.0

Quantitation Limits: 0.04 mg/l for all compounds, except for pyridine which is 0.08 mg/l, and for pentachlorophenol and 2,4,5-trichlorophenol which are 0.20 mg/l

Units: Results and Regulatory Levels are in mg/l

- (a) If o-, m-, and p-cresol concentrations can not be differentiated, the total cresol concentration is used. The regulatory level of total cresol is 200 mg/l.

KHOV005562

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

TOXICITY CHARACTERISTIC LEACHING PROCEDURE PESTICIDES AND HERBICIDES

Lab No. 73676
Client ID: SS-10

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Chlordane	ND	82	ND	0.03
Endrin	ND	120	ND	0.02
Heptachlor	ND	90	ND	0.008 (b)
Heptachlor epoxide	ND	94	ND	0.008 (b)
Lindane (gamma-BHC)	ND	110	ND	0.4
Methoxychlor	ND	140	ND	10.0
Toxaphene	ND	130	ND	0.5
2,4-D	ND	72	ND	10.0
2,4,5-TP (Silvex)	ND	78	ND	1.0

Quantitation Limits: 0.005 mg/l for chlordane, heptachlor, heptachlor epoxide and lindane; 0.001 mg/l for endrin and methoxychlor; 0.01 mg/l for toxaphene; and 0.008 mg/l for 2,4,-D and 2,4,5-TP

Units: Results and Regulatory Levels are in mg/l

- (b) The regulatory level for heptachlor and heptachlor epoxide is for the total of both compounds.

KHOV005563

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543
QA Batch 2024

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS

Lab No. 73676
Client ID: SS-10

<u>Parameter</u>	<u>Result</u>	<u>Matrix Spike % Recovery</u>	<u>Bias Corrected Result</u>	<u>Regulatory Level</u>
Arsenic	ND	102	ND	5.0
Barium	ND	112	ND	100.0
Cadmium	ND	100	ND	1.0
Chromium	ND	100	ND	5.0
Lead	0.33	95.6	0.35	5.0
Mercury	ND	120	ND	0.2
Selenium	ND	99.0	ND	1.0
Silver	ND	94.0	ND	5.0

Quantitation Limits: 0.5 mg/l for arsenic; 0.2 mg/l chromium, lead, and selenium; 0.10 mg/l for cadmium and silver; 0.0002 mg/l for mercury; and 2.0 mg/l barium;

Units: Results and Regulatory Levels are in mg/l

KHOV005564

ENVIROTECH RESEARCH, INC.

J.M. Sorge, Inc.
50 County Line Road
Somerville, NJ 08876
Attention: Mr. Chris Finley

Report Date: 10/15/92
Job No.: C494 - Hovnanian
N.J. Certified Lab No. 12543

HAZARDOUS WASTE CHARACTERISTICS ANALYSIS

<u>Parameter</u>	Lab No. 73676 Client ID: SS-10 <u>Result (mg/kg)</u>	<u>Maximum Conc. (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>
Sulfide (Reactivity)	ND	500	20
Cyanide (Reactivity)	ND	250	25
Petroleum Hydrocarbons	92	30000	25
pH 7.95 (standard units)			
Percent Solids	90.9%		
FLASHPOINT	>160°F		

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N.J. Certified Lab No. 12543
QA Batch 2030

PCBs

<u>Parameter</u>	Lab No. 73676 Client ID: SS-10 90.9% Solid <u>Units: ug/kg (Dry Weight)</u>	Quantitation Limit <u>Units: ug/kg</u>
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

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